Serial No. 10/540,987

Amendment Dated: December 19, 2006

Reply to Office Action Mailed: September 21, 2006

Attorney Docket No. 101790.56538US

**REMARKS** 

Reconsideration and allowance of the above-identified application are

respectfully requested. Claims 1-5 are now pending, wherein claim 1 is amended

to include some of the elements of claim 6, and claim 6 is canceled.

Applicants would like to thank Examiner Lazo for his time and courtesy

during the interview conducted with the undersigned on December 18, 2006.

The following highlights some of the issues discussed during the personal

interview.

The abstract is objected to as being more than 150 words. An amended

abstract is submitted herewith that has less than 150 words.

Claims 1-3 are rejected under 35 U.S.C. § 102(b) as being anticipated by

U.S. Patent No. 4,416,344 to Nakada ("Nakada"). Claims 3 and 4 are rejected

under 35 U.S.C. § 103(a) as being obvious in view of the combination of Nakada

and Japanese Patent Document No. JP 11 092085A ("Okamoto"). Claim 6 is

rejected under 35 U.S.C. § 103(a) as being obvious in view of the combination of

Nakada and Japanese Patent Document No. JP 64-24163 ("Hitachi"). These

grounds of rejection are respectfully traversed.

As agreed during the personal interview, Hitachi does not disclose or

suggest the commanding device recited in Applicants' claim 1. It is respectfully

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submitted that Nakada also does not disclose or suggest such a commanding

device.

Moreover, it is respectfully submitted that the combination of Nakada and

Hitachi does disclose all of the elements of claim 1, as amended to include some

of the elements of claim 6. The Office Action relies upon the combination of

Nakada and Hitachi to reject Applicants' claim 6. This combination, however,

does not disclose or suggest "a control device that controls each of the valve

devices so as to allow outflow of pressure oil from the work hydraulic cylinder by

invalidating a check valve function thereof in response to the command for

allowing extension/contraction output from the commanding device and an

operation of the operating device" as recited in Applicants' amended claim 1.

Nakada discloses an outrigged vehicle capable of crabwise translation.

Check valves 27 and 27', which block reverse flow from the head end changers of

the lift cylinders, are connected between on-off valves 26 and 26' and lift

cylinders 17 and 17'. (Col. 3, lines 45-49). Nakada, however, does not disclose or

suggest that a control devices controls the valve devices to allow outflow of

pressure oil in response to: (1) the command for allowing extension/contraction

output from the commanding device; and (2) an operation of the operating device.

To reject Applicants' claim 6, the Office Action relies upon Hitachi.

Hitachi discloses that device 30 is coupled to directional control valve 21, and is

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also coupled to valves 22b by way of valve 23. (See Figure 1). In the embodiment

of Figure 2 of Hitachi, device 30 is coupled to directional control valve 21, and is

also to valves 4a and 4b by way of valve 23. In contrast to Hitachi which

discloses device 30 controlling operation of valves 21, 23 and 22b or 4a, 4b, 21

and 23, Applicants' amended claim 1 recites that "a control device ... controls

each of the valve devices ... in response to the command for allowing

extension/contraction output from the commanding device and an operation of

the operating device." (emphasis added).

Because Nakada and Hitachi each do not disclose or suggest a control

device that operates in the manner recited in Applicants' claim 1, the

combination does not render this claim unpatentable.

Claims 2 and 3 are patentably distinguishable over the current grounds of

rejection at least by virtue of their dependency from claim 1.

Okamoto discloses a control device for a movable crane, but does not

remedy the above-identified deficiencies of the Nakada and Hitachi with respect

to Applicants' amended claim 1. Accordingly, claims 3 and 4 are patentably

distinguishable over the current grounds of rejection at least by virtue of their

dependency from amended claim 1.

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For at least those reasons set forth above, it is respectfully requested that

the rejection of claims 1-6 be withdrawn.

If there are any questions regarding this amendment or the application in

general, a telephone call to the undersigned would be appreciated since this

should expedite the prosecution of the application for all concerned.

If necessary to effect a timely response, this paper should be considered as

a petition for an Extension of Time sufficient to effect a timely response, and

please charge any deficiency in fees or credit any overpayments to Deposit

Account No. 05-1323 (Docket #101790.56538US).

Respectfully submitted,

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**SWP** 

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The present invention includes an undercarriage (1), a revolving superstructure (2) rotatably mounted atop-the undercarriage (1), a hydraulic source (21, 28) disposed at the revolving superstructure (2), at least a plurality of work hydraulic cylinders (11) disposed at the undercarriage (1), that are to be driven by pressure oil from the hydraulic source (28), A hydraulic circuit includes a control valve (22) that controls flow of pressure oil from the a hydraulic source (28) to the work hydraulic cylinders (11), an operating means (26) for issuing device that issues a command for drive of the control valve (22), valve devices (12a, 12b) each comprising a check valve, each provided in correspondence to one of the plurality of work hydraulic cylinders (11) to allow and prohibit outflow of pressure oil from a work hydraulic cylinder (11), a commanding means (41, 42) for outputting device that outputs one of a command for allowing or a command prohibiting extension/contraction and a command for prohibiting extension/contraction for each of the work hydraulic cylinders (11) and a control means (34 to 36, 43 to 48) for controlling device that controls each of the valve devices (12a, 12b) so as to allow outflow of pressure oil from the work hydraulic cylinder (11) by invalidating a check valve function thereof in response to the command for allowing extension/contraction output from the commanding means (41) and so as to prohibit outflow of pressure oil from the work hydraulic cylinder (11) with the check valve in response to the command for prohibiting extension/contraction.



## **ABSTRACT**

A hydraulic circuit includes a control valve that controls flow of pressure oil from a hydraulic source to work hydraulic cylinders, an operating device that issues a command for drive of the control valve, valve devices each comprising a check valve, each provided in correspondence to one of the plurality of work hydraulic cylinders to allow and prohibit outflow of pressure oil from a work hydraulic cylinder, a commanding device that outputs a command allowing or a command prohibiting extension/contraction for each of the work hydraulic cylinders and a control device that controls each of the valve devices to allow outflow of pressure oil from the work hydraulic cylinder by invalidating a check valve function in response to the command for allowing extension/contraction and to prohibit outflow of pressure oil from the work hydraulic cylinder with the check valve in response to the command for prohibiting extension/contraction.